





## GENERAL FEATURES

- 25 / 50 W (136-174 MHz) Models
- 25 / 45 W (450-490 MHz) Models
- Conventional Zones
- 128 Channels / 128 Zones
- Single Priority Scan
- Single / Multi-Zone Scan
- 8-Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit /Busy / Call Alert LED
- 9 Programmable Function Keys
- Emergency / AUX Key
- Enhanced Kenwood Audio
- Front Panel Speaker
- Companded Audio
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control

- Emergency Call Features
- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode
- Single & Two-Tone Encode
- DTMF Encode / Decode¹
- Special Alert Tone Patterns<sup>2</sup>
- Call Key<sup>2</sup>
- Busy Channel Lockout
- Time Out Timer
- Timed Power Off
- Accessory Interface Cable Option<sup>4</sup>
- 8 Programmable I/O Ports<sup>4</sup>
- Ignition Sense<sup>5</sup>
- Public Address / Horn Alert Option<sup>6</sup>
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option

- Windows® Programming & Tuning<sup>7</sup>
- Front Panel Field-Program Mode
- Cloning
- MIL-STD-810 C/D/E/F

## FleetSync®

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Input / Output Status Messages
- FleetSync® GPS Ready8
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting<sup>8</sup>
- Ignition On/Off GPS Reporting<sup>5,8</sup>



## **Options**





**KCT-36** 3m Extension Cable (for KCT-39)



■ KES-5 External Speaker (requires KAP-2)



■ KPS-15



■ KMC-36 Keypad Microphone



**KCT-39** Connection Cable



■ KMB-10 Key Lock Adapter



■ KDS-100 Mobile Data Terminal (requires KCT-39 option)



■ KMC-9C Control Station Desktop Microphone

**Specifications** 



■ KAP-2 Horn Alert/Public Address Relay Unit



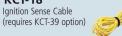
■ KLF-2 Line Noise Filter



■ KGP-2A/2B GPS Receiver / Modem Unit (requires KCT-39 option)



■ KCT-18



■ KES-3 External Speaker



■ KPS-10A DC Power Supply



All accessories and options may not be available in all markets. Contact an authorized

Model	TK-7160	TK-7160H	TK-8160	TK-8160H	
GENERAL					
Frequency Range	136~174 MHz		450~490 MHz		
Number of Channels	•••••				
Zone		Max.128	per Radio		
Channel	Max.128 per Zone				
Channel Spacing					
Wide	25 kHz, 30 kHz		25 kHz		
Narrow	12.5 kHz, 15 kHz		12.5 kHz		
Operating Voltage	13.6 V DC±15 %				
Current Drain					
Standby	0.4 A	0.4 A	0.4 A	0.4 A	
Receive	1.0 A	1.0 A	1.0 A	1.0 A	
Transmit	8.0 A	14.0 A	8.0 A	14.0 A	
Duty Cycle	Transmit: 20 %				
Operating Temperature Range	-22 °F ~ +140 °F (-30 °C ~ +60 °C)				
Frequency Stability	±0.00025 % (-22 °F ~ +140 °F)				
Antenna Impedance	50 Ω				
Channel Frequency Spread	38 MHz		40 MHz		
Dimensions (W x H x D),	6-5/16" x 1-11/16" x 5-3/8"				
Projections not included					
Weight (net)	2.6 lbs. (1.18 kg)				
FCC ID	K4437663110	K4437663210	K4437673110	K4437673210	
IC Certification	—	282F-37663210	—	282F-37673210	

The 20-pin 160-Series Easy Option Port is a not compatible with the Kenwood 26-pin Easy Option Port connector/options. The traditional PCB connections are available for wired-in boards not having a 20-pin Easy Option Port connector. FleetSvnc® is a registered trademark of Kenwood Corporation.

Kenwood dealer for details and complete list of all accessories and options.

Model	TK-7160	TK-7160H	TK-8160	TK-8160H	
RECEIVER (Measurem	ents made pe	r EIA/TIA-603)			
Sensitivity (12dB SINAD)					
Wide	0.28 μV				
Narrow	0.35 µV				
Selectivity					
Wide	75 dB				
Narrow	65 dB				
Intermodulation Distortion					
Wide	70 dB				
Narrow	60 dB				
Spurious Response	75 dB				
Audio Output					
(4 Ω Impedance)	4 W with less than 5 % distortion				
TRANSMITTER (Meas	urements mad	de per EIA/TIA-6	03)		
RF Output Power	5 W / 25 W	25 W / 50 W	5 W / 25 W	25 W / 45 W	
Spurious Response	70 dB				
Type of Emission					
Wide	16K0F3E				
Narrow	11K0F3E				
FM Hum & Noise					
Wide	45 dB				
Narrow	40 dB				
Microphone Impedance	600 Ω				
Audio Distortion					
Wide	3 %				
	5 %				

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

## Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain*	506.1/Procedure II	506.2/Procedure II	506.3/Procedure II	506.4/Procedure III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V

<sup>\*</sup> MILSTD-810 506.X Procedure II "rain drip" specifications are conditional on installed KMC-35/36 microphones and supplied accessory connector covers.



- DTMF includes PTT ID, Emergency ANI, Manual Encode
- (KMC-36), Auto-Dial (9 numbers) & Stun.

  Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.
- <sup>3</sup> Call Key 1 & 2: operates for 2-Tone, DTMF and FleetSync® status encode.
- <sup>4</sup> KCT-39 required for 4 CH remote control, ignition sense (KCT-18), KGP-2A/B, KDS-100, data modems, external GPS interface.
- KCT-39 & KCT-18 ignition sense cable options required.
   KAP-2 required: Horn Alert operates for FleetSync®, 2-Tone or DTMF selective call decode.

  KPG-99D program software required: Windows\*98/ NT/2000/ Me/XP
- compatible; English/Spanish program screen languages. \*FleetSync\* GPS features require a KCT-39 and an external GPS receiver with NMEA TTL level serial data output; set Port 1 & 2





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